Modification Request Δ in Cropping System

Joshi, J.R.

From: Lawson, Christine
Sent: Wednesday, May 28, 2014 3:43 PM
To: Joshi, J.R.
Subject: FW: Permit Modification
Attachments: Stantonsburg 05282014 signed.pdf; Stantonsburg Sprayfield map 05282014.pdf

JR –

Please see the attached updated Waste Utilization Plan for Stantonsburg Farm, NCA240041. Because this is an NPDES facility, we will need to post the modification for public notice on our website.

Will we need a modification application along with this WUP update?

Please process this modification as quickly as possible. I am available should you have any questions.

Christine B. Lawson
Acting Supervisor/Engineer - Animal Feeding Operations Branch
NC Division of Water Resources
919-807-6354 - voice 919-807-6496 – fax

From: AJ Linton [mailto:alinton@murfam.com]
Sent: Wednesday, May 28, 2014 2:37 PM
To: Lawson, Christine
Subject: Permit Modification

Dear Christine,

I am requesting a permit modification to facility NCA240041 Stantonsburg Farm. I would like to replace the current cropping plan of corn, wheat, soybeans with Bermuda and small grain on fields 1,2,9,13-20. This will enhance the cover on the fields year round. Please find attached a farm map and new NUP.

Thank you

AJ Linton
Environmental Manager – Murphy Family Ventures

North Carolina Department of Environment and Natural Resources
Division of Water Quality

Beverly Eaves Perdue
Governor

Charles Wakild, P.E.
Director

Dee Freeman
Secretary

June 5, 2012

Stantonsburg Farm, Inc.
Stantonsburg Farm
P. O. Box 1139
Wallace, NC 28466

Subject: Certificate of Coverage No. NCA240041
Stantonsburg Farm
Animal Waste Management System
Greene County

COC
Existing

Dear Stantonsburg Farm, Inc.:

In accordance with your renewal request received March 12, 2012, we are hereby forwarding to you this Certificate of Coverage (COC) issued to Stantonsburg Farm, Inc., authorizing the operation of the subject animal waste management system in accordance with NPDES General Permit NCA200000.

This COC shall be effective from July 1, 2012 until June 30, 2017 and replaces the NPDES COC issued to this facility with an expiration date of June 30, 2012.

This approval shall consist of the operation of this system including, but not limited to, the management and land application of animal waste as specified in the facility's Certified Animal Waste Management Plan (CAWMP) for the Stantonsburg Farm, located in Greene County, with an animal capacity of no greater than the following swine annual averages:

Wean to Finish: **0**	Feeder to Finish: **1000**	Boar/Stud: **0**
Wean to Feeder: **400**	Farrow to Wean: **3400**	Gilts: **0**
Farrow to Finish: **0**	Farrow to Feeder: **0**	

If this is a Farrow to Wean or Farrow to Feeder operation, there may also be one boar for each 15 sows. Where boars are unneccessary, they may be replaced by an equivalent number of sows. Any of the sows may be replaced by gilts at a rate of 4 gilts for every 3 sows

Pursuant to this COC, you are authorized and required to operate the system in conformity with the conditions and limitations as specified in the General Permit, the facility's CAWMP, and this COC. An adequate system for collecting and maintaining the required monitoring data and operational information must be established for this facility. Any increase in waste production greater than the certified design capacity or increase in number of animals authorized by this COC (as provided above) will require a modification to the CAWMP and this COC and must be completed prior to actual increase in either wastewater flow or number of animals.

Please pay careful attention to the record keeping and monitoring conditions in this permit. The Animal Facility Annual Certification Form must be completed and returned to the Division of Water Quality by no later than March 1st of each year.

1636 Mail Service Center, Raleigh, North Carolina 27699-1636
Location: 512 N. Salisbury St. Raleigh, North Carolina 27604
Phone: 919-807-6464 \ FAX: 919-807-6492
Internet: www.ncwaterquality.org

If your Waste Utilization Plan has been developed based on site-specific information, careful evaluation of future samples is necessary. Should your records show that the current Waste Utilization Plan is inaccurate you will need to have a new Waste Utilization Plan developed.

Upon abandonment or depopulation for a period of four years or more, the Permittee must submit documentation to the Division demonstrating that all current NRCS standards are met prior to restocking of the facility.

Per 15A NCAC 02T .0111(c), a compliance boundary is provided for the facility and no new water supply wells shall be constructed within the compliance boundary. Per NRCS standards a 100-foot separation shall be maintained between water supply wells and any lagoon or any wetted area of a spray field.

Please be advised that any violation of the terms and conditions specified in this COC, the General Permit or the CAWMP may result in the revocation of this COC, or penalties in accordance with NCGS 143-215.6A through 143-215.6C, the Clean Water Act and 40 CFR 122.41 including civil penalties, criminal penalties, and injunctive relief.

If any parts, requirements, or limitations contained in this COC are unacceptable, you have the right to apply for an individual NPDES Permit by contacting the staff member listed below for information on this process. Unless such a request is made within 30 days, this COC shall be final and binding.

In accordance with Condition III.27 of the General Permit, waste application shall cease within four (4) hours of the time that the National Weather Service issues a Hurricane Warning, Tropical Storm Warning, or a Flood Watch associated with a tropical system for the county in which the facility is located. You may find detailed watch/warning information for your county by calling the Newport/Morehead City, NC National Weather Service office at (252) 223-5737, or by visiting their website at: www.erh.noaa.gov/er/mhx/

This facility is located in a county covered by our Washington Regional Office. The Regional Office Aquifer Protection Staff may be reached at (252) 946-6481. If you need additional information concerning this COC or the General Permit, please contact the Animal Feeding Operations Unit staff at ((919) 807-6464.

Sincerely,

for Charles Wakild, P.E.

Enclosures (General Permit NCA200000, Record Keeping and Reporting Package)

cc: (Certificate of Coverage only for all cc's)
Washington Regional Office, Aquifer Protection Section
Greene County Health Department
Greene County Soil and Water Conservation District
APS Central Files (Permit No. NCA240041)
AFO Notebooks
Murphy-Brown, LLC

New Waste Plan

WASTE UTILIZATION PLAN

Facility Number: **40-41**

Facility COC Number: **NCA240041**

Facility Name: **Stantonsburg Farm 87681**

Landowner's Name: **Stantonsburg Farm Inc.**

Landowner's Mailing Address: **PO Box 1139 Wallace, NC 28466**

Facility's physical address: **2920 Sand Pit Rd Stantonsburg NC,27883**

Type of Operation: **Farrow -Wean**

Number of Animals: **4800(3,400 Farrow-Wean; 1,000 Feeder-Finish; 400 Wean-Feeder)**

The waste from your animal facility must be land applied at a specified rate to prevent pollution of surface and/or groundwater. The plant nutrients in the animal waste should be used to reduce the amount of commercial fertilizer required for the crops in the fields where the waste is to be applied. This waste utilization plan uses nitrogen as the limiting nutrient. Waste should be analyzed before each application cycle. Annual soil tests are strongly encouraged so that all plant nutrients can be balanced for realistic yields of the crop to be grown.

Several factors are important in implementing your waste utilization plan in order to maximize the fertilizer value of the waste and to ensure that it is applied in an environmentally safe manner. Always apply waste based on the needs of the crop to be grown and the nutrient content of the waste. Do not apply more nitrogen than the crop can utilize. Soil types are important as they have different infiltration rates, leaching potentials, cation exchange capacities, and available water holding capacities. Normally waste shall not be applied to land eroding at greater than 5 tons per acre per year. With special precautions, waste may be applied to land eroding at up to 10 tons per acre per year. Do not apply waste on saturated soils, when it is raining, or when the surface is frozen. Either of these conditions may result ion runoff to surface waters which is not allowed under DEM regulations. Wind conditions should also be considered to avoid drift and downwind odor problems. To maximize the value of nutrients for crop production and to reduce the potential for pollution, the waste should be applied to a growing crop or applied to bare ground not more than 30 days prior to planting. Injecting the waste or disking will conserve nutrients and reduce odor problems.

The estimated acres needed to apply the animal waste is based on typical nutrient content for this type of facility. Acreage requirements should be based on the waste analysis report from your waste management facility. Attached you will find information on proper sampling techniques, preparation, and transfer of waste samples to the lab for analysis.

This waste utilization plan, if carried out, meets the requirements for compliance with 15A NCAC 2H.0217 adopted by the Environmental Management Commission.

WASTE UTILIZATION PLAN

Amount of Waste Produced Per Year (gallons, ft, tons, etc.)

3,400	**6.1**		**20,740.0**	
1,000 animals X	**1.9**	(tons) waste/animal/year =	**1,900.0**	(amt.) waste/year.
400	**0.42**		**168.0**	

Amount of Plant Available Nitrogen (PAN) Produced Per Year

3,400	**5.4**		**18,360.0**	
1,000	**2.3**		**2,300.0**	
400 animals X	**0.48**	lbs. PAN/animal/year =	**192.0**	lbs. PAN/year. (PAN from N.C. Tech. Guide Std. 633)
		TOTAL	**20,852.0**	

Applying the above amount of waste is a big job. You should plan time and have appropriate equipment to apply the waste in a timely manner.

The following acreage will be needed for waste application based on the crop to be grown and surface application:

Table 1: **ACRES OWNED BY PRODUCER** **SEE NUP Page 2a**

*This N is from animal waste only. If nutrients from other sources such as commercial fertilizer are applied, they must be accounted for. N must be based on realistic yield expectation.

NOTE: The applicator is cautioned that P and K may be over applied while meeting the N requirements. Beginning in 1996 the Coastal Zone Management Act will require farmers in some eastern counties of North Carolina to have a nutrient management plan that addresses all nutrients. This plan only addresses Nitrogen.

WASTE UTILIZATION PLAN

Table 1: ACRES OWNED BY PRODUCER

Tract #	Field No.	Soil Type	Crop	Lbs. N Per Acre	Acres	Lbs. N Utilized	Month of Application
Stantonsburg	1	Wagram	Bermuda	198	4.4	871.20	Mar - Sep
Stantonsburg	1	Wagram	Small Grain	50	4.4	220.00	Sept 1st- March 31st
Stantonsburg	Aerway 1	Wagram	Bermuda	198	7.1	1405.80	Mar - Sep
Stantonsburg	Aerway 1	Wagram	Small Grain	50	7.1	355.00	Sept 1st- March 31st
Stantonsburg	2	Norfolk	Bermuda	224	5.0	1120.00	Mar - Sep
Stantonsburg	2	Norfolk	Small Grain	50	5.0	250.00	Sept 1st- March 31st
Stantonsburg	Aerway 2	Norfolk	Bermuda	224	9.1	2038.40	Mar - Sep
Stantonsburg	Aerway 2	Norfolk	Small Grain	50	9.1	455.00	Sept 1st- March 31st
Stantonsburg	3-5	Norfolk	Bermuda	224	16.4	3673.60	Mar - Sep
Stantonsburg	3-5	Norfolk	Small Grain	50	16.4	820.00	Oct - Mar
Stantonsburg	Aerway 3-5	Norfolk	Bermuda	224	17.8	3987.20	Mar - Sep
Stantonsburg	Aerway 3-5	Norfolk	Small Grain	50	17.8	890.00	Oct - Mar
Stantonsburg	6-8	Kalmia	Bermuda	224	14.0	3136.00	Mar - Sep
Stantonsburg	6-8	Kalmia	Small Grain	50	14.0	700.00	Sept 1st- March 31st
Stantonsburg	Aerway 6-8	Kalmia	Bermuda	224	18.8	4211.20	Mar - Sep
Stantonsburg	Aerway 6-8	Kalmia	Small Grain	50	18.8	940.00	Sept 1st- March 31st
Stantonsburg	9	Kalmia	Bermuda	224	6.9	1545.60	Mar - Sep
Stantonsburg	9	Kalmia	Small Grain	50	6.9	345.00	Sept 1st- March 31st
Stantonsburg	Aerway 9	Kalmia	Bermuda	224	15.3	3427.20	Mar - Sep
Stantonsburg	Aerway 9	Kalmia	Small Grain	50	15.3	765.00	Sept 1st- March 31st
Stantonsburg	10-12	Autryville	Soybeans	100	15.6	1560.00	April 1st-Sept 15th
Stantonsburg	10-12	Autryville	Cover	15	15.6	234.00	Sept 1st- March 31st
Stantonsburg	Aerway 10-12	Autryville	Soybeans	100	22.4	2240.00	April 1st-Sept 15th
Stantonsburg	Aerway 10-12	Autryville	Cover	15	22.4	336.00	Sept 1st- March 31st
Stantonsburg	13-16	Norfolk	Bermuda	224	9.4	2105.60	Mar - Sep
Stantonsburg	13-16	Norfolk	Small Grain	50	9.4	470.00	Sept 1st- March 31st
Stantonsburg	Aerway 13-16	Norfolk	Bermuda	224	16.9	3785.60	Mar - Sep
Stantonsburg	Aerway 13-16	Norfolk	Small Grain	50	16.9	845.00	Sept 1st- March 31st
Stantonsburg	17-20	Norfolk	Bermuda	224	20.0	4480.00	Mar - Sep
Stantonsburg	17-20	Norfolk	Small Grain	50	20.0	1000.00	Sept 1st- March 31st
Stantonsburg	Aerway 17-20	Norfolk	Bermuda	224	30.2	6764.80	Mar - Sep
Stantonsburg	Aerway 17-20	Norfolk	Small Grain	50	30.2	1510.00	Sept 1st- March 31st
Stantonsburg	21-23	Goldsboro	Corn	148	11.5	1702.00	April 1st-Sept 15th
Stantonsburg	21-23	Goldsboro	Wheat	136	11.5	1564.00	Sept 1st- March 31st
Stantonsburg	Aerway 21-23	Goldsboro	Corn	148	19.1	2826.80	April 1st-Sept 15th
Stantonsburg	Aerway 21-23	Goldsboro	Wheat	136	19.1	2597.60	Sept 1st- March 31st
Stantonsburg	Aerway 1	Norfolk	Soybeans	137	28.2	3863.40	April 1st-Sept 15th
Stantonsburg	Aerway 1	Norfolk	Cover	15	28.2	423.00	Sept 1st- March 31st
Stantonsburg	Aerway 2	Aycock	Soybeans	160	2.6	416.00	April 1st-Sept 15th
Stantonsburg	Aerway 2	Aycock	Cover	15	2.6	39.00	Sept 1st- March 31st
Stantonsburg	Aerway 3	Wagram	Soybeans	90	1.5	135.00	April 1st-Sept 15th
Stantonsburg	Aerway 3	Wagram	Cover	15	1.5	22.50	Sept 1st- March 31st
Stantonsburg	Aerway 4	Kalmia	Soybeans	137	7.1	972.70	April 1st-Sept 15th
Stantonsburg	Aerway 4	Kalmia	Cover	15	7.1	106.50	Sept 1st- March 31st
Stantonsburg	Aerway 4A	Johns	Soybeans	147	1.6	235.20	April 1st-Sept 15th
Stantonsburg	Aerway 4A	Johns	Cover	15	1.6	24.00	Sept 1st- March 31st
Stantonsburg	Aerway 5	Johns	Soybeans	147	8.8	1293.60	April 1st-Sept 15th
Stantonsburg	Aerway 5	Johns	Cover	15	8.8	132.00	Sept 1st- March 31st
Stantonsburg	Aerway 5A	Johns	Soybeans	147	3.0	441.00	April 1st-Sept 15th
Stantonsburg	Aerway 5A	Johns	Cover	15	3.0	45.00	Sept 1st- March 31st
Stantonsburg	Aerway 6	Johns	Soybeans	147	5.0	735.00	April 1st-Sept 15th
Stantonsburg	Aerway 6	Johns	Cover	15	5.0	75.00	Sept 1st- March 31st
				Reels	103.2	25,797.00	
				Aerway	214.5	42,915.10	

Totals from above Tables

Reels

	Acres	Lbs. N Utilized
Table 1	103.2	25,797.00
Table 2		-
Total	103.2	25,797.00
Amount of N Produced		20,852.00
Surplus or Deficit		(4,945.00)

Aerway

	Acres	Lbs. N Utilized
Table 1	214.5	42,915.10
Table 2	0	-
Total	214.5	42,915.10
Amount of N Produced		20,852.00
Surplus or Deficit		(22,063.10)

WASTE UTILIZATION PLAN

Table 1: ACRES OWNED BY PRODUCER

Tract #	Field No.	Soil Type	Crop	Lbs. N Per Acre	Acres	Lbs. N Utilized	Month of Application
Stantonsburg	1	Wagram	Bermuda	198	4.4	867.24	Mar - Sep
Stantonsburg	1	Wagram	Small Grain	50	4.4	219.00	Sept 1st- April 30th
Stantonsburg	Aerway 1	Wagram	Bermuda	198	7.1	1405.80	Mar - Sep
Stantonsburg	Aerway 1	Wagram	Small Grain	50	7.1	355.00	Sept 1st- April 30th
Stantonsburg	2	Norfolk	Bermuda	224	5.0	1117.76	Mar - Sep
Stantonsburg	2	Norfolk	Small Grain	50	5.0	249.50	Sept 1st- April 30th
Stantonsburg	Aerway 2	Norfolk	Bermuda	224	9.1	2038.40	Mar - Sep
Stantonsburg	Aerway 2	Norfolk	Small Grain	50	9.1	455.00	Sept 1st- April 30th
Stantonsburg	3-5	Norfolk	Bermuda	224	16.4	3678.08	Mar - Sep
Stantonsburg	3-5	Norfolk	Small Grain	50	16.4	821.00	Sept 1st- April 30th
Stantonsburg	Aerway 3-5	Norfolk	Bermuda	224	17.8	3987.20	Mar - Sep
Stantonsburg	Aerway 3-5	Norfolk	Small Grain	50	17.8	890.00	Sept 1st- April 30th
Stantonsburg	6-8	Kalmia	Bermuda	224	14.0	3131.52	Mar - Sep
Stantonsburg	6-8	Kalmia	Small Grain	50	14.0	699.00	Sept 1st- April 30th
Stantonsburg	Aerway 6-8	Kalmia	Bermuda	224	18.8	4211.20	Mar - Sep
Stantonsburg	Aerway 6-8	Kalmia	Small Grain	50	18.8	940.00	Sept 1st- April 30th
Stantonsburg	9	Kalmia	Bermuda	224	6.9	1538.88	Mar - Sep
Stantonsburg	9	Kalmia	Small Grain	50	6.9	343.50	Sept 1st- April 30th
Stantonsburg	Aerway 9	Kalmia	Bermuda	224	15.3	3427.20	Mar - Sep
Stantonsburg	Aerway 9	Kalmia	Small Grain	50	15.3	765.00	Sept 1st- April 30th
Stantonsburg	10-12	Autryville	Corn	104	15.6	1619.28	Feb 15th-June 30th
Stantonsburg	10-12	Autryville	Wheat	104	15.6	1619.28	Sept 1st- April 30th
Stantonsburg	Aerway 10-12	Autryville	Corn	100	22.4	2240.00	Feb 15th-June 30th
Stantonsburg	Aerway 10-12	Autryville	Wheat	104	22.4	2329.60	Sept 1st- April 30th
Stantonsburg	13-16	Norfolk	Bermuda	224	9.4	2112.32	Mar - Sep
Stantonsburg	13-16	Norfolk	Small Grain	50	9.4	471.50	Sept 1st- April 30th
Stantonsburg	Aerway 13-16	Norfolk	Bermuda	224	16.9	3785.60	Mar - Sep
Stantonsburg	Aerway 13-16	Norfolk	Small Grain	50	16.9	845.00	Sept 1st- April 30th
Stantonsburg	17-20	Norfolk	Bermuda	224	20.0	4480.00	Mar - Sep
Stantonsburg	17-20	Norfolk	Small Grain	50	20.0	1000.00	Sept 1st- April 30th
Stantonsburg	Aerway 17-20	Norfolk	Bermuda	224	30.2	6764.80	Mar - Sep
Stantonsburg	Aerway 17-20	Norfolk	Small Grain	50	30.2	1510.00	Sept 1st- April 30th
Stantonsburg	21-23	Goldsboro	Soybeans	149	11.5	1706.05	Feb 15th-June 30th
Stantonsburg	21-23	Goldsboro	Cover	15	11.5	171.75	Sept 1st- April 30th
Stantonsburg	Aerway 21-23	Goldsboro	Soybeans	149	19.1	2845.90	Feb 15th-June 30th
Stantonsburg	Aerway 21-23	Goldsboro	Cover	15	19.1	286.50	Sept 1st- April 30th
Stantonsburg	Aerway 1	Norfolk	Corn	131	28.2	3694.20	Feb 15th-June 30th
Stantonsburg	Aerway 1	Norfolk	Wheat	125	28.2	3525.00	Sept 1st- April 30th
Stantonsburg	Aerway 2	Aycock	Corn	141	2.6	366.60	Feb 15th-June 30th
Stantonsburg	Aerway 2	Aycock	Wheat	118	2.6	306.80	Sept 1st- April 30th
Stantonsburg	Aerway 3	Wagram	Corn	90	1.5	135.00	Feb 15th-June 30th
Stantonsburg	Aerway 3	Wagram	Wheat	91	1.5	136.50	Sept 1st- April 30th
Stantonsburg	Aerway 4	Kalmia	Corn	125	7.1	887.50	Feb 15th-June 30th
Stantonsburg	Aerway 4	Kalmia	Wheat	125	7.1	887.50	Sept 1st- April 30th
Stantonsburg	Aerway 4A	Johns	Corn	130	1.6	208.00	Feb 15th-June 30th
Stantonsburg	Aerway 4A	Johns	Wheat	106	1.6	169.60	Sept 1st- April 30th
Stantonsburg	Aerway 5	Johns	Corn	130	8.8	1144.00	Feb 15th-June 30th
Stantonsburg	Aerway 5	Johns	Wheat	106	8.8	932.80	Sept 1st- April 30th
Stantonsburg	Aerway 5A	Johns	Corn	130	3.0	390.00	Feb 15th-June 30th
Stantonsburg	Aerway 5A	Johns	Wheat	106	3.0	318.00	Sept 1st- April 30th
Stantonsburg	Aerway 6	Johns	Corn	130	5.0	650.00	Feb 15th-June 30th
Stantonsburg	Aerway 6	Johns	Wheat	106	5.0	530.00	Sept 1st- April 30th
				Reels	103.1	25,845.66	
				Aerway	214.5	50,231.30	

Totals from above Tables

Reels

	Acres	Lbs. N Utilized
Table 1	103.1	25,845.66
Table 2	0	-
Total	103.1	25,845.66
Amount of N Produced		20,852.00
Surplus or Deficit		(4,993.66)

Aerway

	Acres	Lbs. N Utilized
Table 1	214.5	50,231.30
Table 2	0	-
Total	214.5	50,231.30
Amount of N Produced		20,852.00
Surplus or Deficit		(29,379.30)

WASTE UTILIZATION PLAN

Table 2: **ACRES WITH AGREEMENT OR LONG TERM LEASE**
(Agreement with adjacent landowner must be attached)
(Required only if operator does not own
adequate land [see Required Specification 2])

Tract #	Field No.	Soil Type	Crop	Lbs. N Per Acre	Acres	Lbs. N Utilized	Month of Application
				Total		-	

* See footnote for Table 1.

Totals from above Tables

Reels

	Acres	Lbs. N Utilized
Table 1		
Table 2		
Total		
Amount of N Produced		
Surplus or Deficit		

Aerway

	Acres	Lbs. N Utilized
Table 1		
Table 2		
Total		
Amount of N Produced		
Surplus or Deficit		

NOTE: The Waste Utilization Plan must contain provisions for periodic land application of sludge at agronomic rates. The sludge will be nutrient rich and will require precautionary measures to prevent over application of nutrient or other elements.

WASTE UTILIZATION PLAN

See attached map showing the fields to be used for the utilization of waste water.

Application of Waste by Irrigation

Field No.	Soil Type	Crop	Application Rate (In/Hr)	Application Amount (In.)
Field 1	Wagram	Bermuda/Small Grain	0.6	1
Field 2	Wagram	Bermuda/Small Grain	0.6	1
Field 3-5	Norfolk	Bermuda/Small Grain	0.5	1
Field 6-8	Kalmia	Bermuda/Small Grain	0.5	1
Field 9	Kalmia	Bermuda/Small Grain	0.5	1
Field 10-12	Autryville	Corn,Wheat, Beans	0.6	1
Field 13-16	Norfolk	Bermuda/Small Grain	0.5	1
Field 17-20	Norfolk	Bermuda/Small Grain	0.5	1
Field 21-23	Goldsboro	Corn,Wheat, Beans	0.5	1
A1	Norfolk	Corn,Wheat, Beans	0.5	1
A2	Aycock	Corn,Wheat, Beans	0.4	1
A3	Wagram	Corn,Wheat, Beans	0.6	1
A4	Kalmia	Corn,Wheat, Beans	0.5	1
A4A	Johns	Corn,Wheat, Beans	0.5	1
A5	Johns	Corn,Wheat, Beans	0.5	1
A5A	Johns	Corn,Wheat, Beans	0.5	1
A6	Jahns	Corn,Wheat, Beans	0.5	1

THIS TABLE IS NOT NEEDED IF WASTE IS NOT BEING APPLIED BY IRRIGATION, HOWEVER A SIMILAR TABLE WILL BE NEEDED FOR DRY LITTER OR SLURRY.

**** 1 Lagoons**

Your facility is designed for _67__days of temporary storage and the temporary storage must be removed on the average of once every 6 Months. In no instance should the volume of waste being stored in your structure exceed Elevation *see lagoon design.

Call the local Natural Resources Conservation Service (formerly Soil Conservation Service) or Soil and Water Conservation District office after you receive the waste analysis report for assistance in determining the amount per acre to apply and the proper application rate prior to applying the waste.

Narrative of operation:

Farm uses an aerway system and hard hose traveler system.
Nutrient removal is through crop removal.
There has been a 15 pound N reduction taken from the cover crop due to the residual N carry over from soybeans. In the years when the cover is used and is not harvested, there will be a reduction in the N allowed for the corn crop equal to the amount applied on the cover.

WASTE UTILIZATION PLAN

REQUIRED SPECIFICATIONS

1 Animal waste shall not reach surface waters of the state by runoff, drift, manmade conveyances, direct application, or direct discharge during operation or land application. Any discharge of waste which reaches surface water is prohibited.

2 There must be documentation in the design folder that the producer either owns or has and agreement for use of adequate land on which to properly dispose of waste, he/she shall provide a copy of an agreement with a landowner who is within a reasonable proximity, allowing him/her the use of the land for waste application. It is the responsibility of the owner of the facility to secure an update of the Waste Utilization Plan when there is a change in the operation, increase in the number of animals, method of utilization, or available land.

3 Animal waste shall be applied to meet, but not exceed, the nitrogen needs for realistic crop yields based on soil type, available moisture, historical data, climatic conditions, and level of management, unless there are regulations that restrict the rate of application for other nutrients.

4 Animal waste shall be applied to land eroding less than 5 tons per acre per year. Waste may be applied to land that is eroding at 5 or more tons, but less than 10 tons per acre per year providing grass filter strips are installed where runoff leaves the field. (See FOTG Standard 393 - Filter Strip).

5 Odors can be reduced by injecting the waste or disking after waste application. Waste should not be applied when there is danger of drift from the irrigation field.

6 When animal waste is to be applied on acres subject to flooding, it will be soil incorporated on conventionally tilled cropland. When applied to conservation tilled crops or grassland, the waste may be broadcast provided the application does not occur during a season prone to flooding. (See "Weather and Climate in North Carolina" for guidance.)

7 Liquid waste shall be applied at rates not to exceed the soil infiltration rate such that runoff does not occur offsite or to surface waters and in a method which does not cause drift from the site during application. No ponding should occur in order to control odor or flies.

8 Animal waste shall not be applied to saturated soils, during rainfall events, or when the surface is frozen.

WASTE UTILIZATION PLAN

REQUIRED SPECIFICATIONS
(continued)

9 Animal waste shall be applied on actively growing crops in such a manner that the crop is not covered with waste to a depth that would inhibit growth. The potential for salt damage from animal waste should also be considered.

10 Waste nutrients shall not be applied in fall or winter for spring planted crops on soils with a high potential for leaching. Waste nutrient loading rates on these soils should be held to a minimum and a suitable wither cover crop planted to take up released nutrients. Waste shall not be applied more than 30 days prior to planting of the crop or forages breaking dormancy.

11 Any new swine facility sited on or after October 1, 1995 shall comply with the following: The outer perimeter of the land area onto which waste is applied from a lagoon that is a component of a swine farm shall be at least 50 feet from any residential property boundary and from any perennial stream or river (other than an irrigation ditch or canal. Animal waste other than swine waste from facilities sited on or after October 1, 1995), shall not be applied closer than 25 feet to perennial waters. (See Standard 393 - Filter Strips).

12 Animal waste shall not be applied closer than 100 feet to wells.

13 Animal waste shall not be applied closer than 200 feet of dwellings other than those owned by the landowner.

14 Waste shall be applied in a manner no to reach other property and public right-of ways.

15 Animal waste shall not be discharged into surface waters, drainageways, or wetlands by a discharge or by over-spraying. Animal waste may be applied to prior converted wetlands provided they have been approved as a land application site by prior converted wetlands provided they have been approved as a land application site by a "technical specialist". Animal waste shall not be applied on grassed waterways that discharge directly into water courses, and on other grassed waterways, waste shall be applied at agronomic rates in a manner that causes no runoff or drift from the site.

16 Domestic and industrial waste from washdown facilities, showers, toilets, sinks, etc., shall not be discharged into the animal waste management system.

17 If animal production at the facility is to be suspended or terminated, the owner is responsible for obtaining and implementing a "closure plan" which will eliminate the possibility of an illegal discharge, pollution and erosion.

18 Waste hackling structures, piping, pumps, reels, etc., should be inspected on a regular basis to prevent breakdowns, leaks, and spills. A regular maintenance checklist should be kept on site.

19 Animal waste can be used in a rotation that includes vegetables and other crops for direct human consumption. However, if animal waste is used on crops for direct human consumption is should only be applied perplant with no further applications of animal waste during the crop season.

20 Highly visible markers shall be installed to mark the top and bottom elevations of the temporary storage (pumping volume) of all waste treatment lagoons. Pumping shall be managed to maintain the liquid level between markers. A marker will be required to mark the maximum storage volume for waste storage ponds.

21 Waste shall be tested within 60 days of utilization and soil shall be tested at least annually at crop sites where waste products are applied. Nitrogen shall be the rate-determining element. Zinc and copper levels in the soils shall be monitored and alternative crop sites shall be used when these metals approach excessive levels. pH shall be adjusted for optimum crop production and maintained. Soil and waste analysis records shall be kept for five years. Poultry dry waste application records shall be maintained for three (3) years. Waste application records for all other waste shall be maintained for five (5) years.

22 Dead animals will be disposed of in a manner that meets North Carolina regulations.

WASTE UTILIZATION PLAN

WASTE UTILIZATION PLAN AGREEMENT

Name of Farm: Stantonsburg

Owner / Manager Agreement

I (we) understand and will follow and implement the specifications and the operation and maintenance procedures established in the approved animal waste utilization plan for the farm named above. I (we) know that any expansion to the existing design capacity of the waste treatment and storage system or construction of new facilities will require a new certification to be submitted to the Division of Environment Management (DEM) before the new animals are stocked. I (we) also understand that there must be no discharge of animal waste from this system to surface waters of the state from a storm event less severe than the 25-year, 24-Hour storm. The approved plan will be filed on-site at the farm office and at the office of the local Soil and Water Conservation District and will be available for review by DEM upon request.

Name of Facility Owner: Stantonsburg Farms Inc.
(please print)

Signature: _____ Date: _____

Name of Manager (If different from owner):

Signature: AJ Linton AJ Linton Date: 5-28-14

Name of Technical Specialist: (*please print)* : **AJ Linton**

Affiliation: Murphy Family Ventures, LLC

Address (Agency): P.O. Box 1139

Wallace, NC 28466

Signature: AJ Linton Date: 5-28-14

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